

METHOD FOR OLIGOMERIZING OLEFINS TO FORM HIGHER OLEFINS
USING SULFUR-CONTAINING AND SULFUR-TOLERANT CATALYSTS

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ABSTRACT OF THE DISCLOSURE

The present invention is related to a method for oligomerizing olefinic monomers under oligomerization conditions to form higher olefins. The novel method comprises contacting a feed comprising the olefinic monomers with a catalyst composition comprising the reaction product of: (a) a compound having
10 a formula selected from the group consisting of $M[S_2C_2(R^aR^b)]_2$ and $M[S_2C_6(R^1R^2R^3R^4)]_2$, wherein M is a late transition metal, R^a , R^b , R^1 , R^2 , R^3 and R^4 are independently selected and may be the same or different and are selected from hydrogen, electron-withdrawing groups and unsubstituted and substituted hydrocarbyl groups; and (b) an activating cocatalyst. The improved
15 method advantageously relates to oligomerizing olefinic monomers from feed streams having contaminants, especially sulfur-containing contaminants.